Name			Date	Class
Acids	, Ba	ses, and Solutions	Chapter Test	
Aci	ds	, Bases, and	Solutions	
Multi	ple	Choice		
Write	the l	letter of the correct answ	ver on the line at the left.	
1. A mixture in which particles can be seen and easily sep settling or filtration is a		easily separated by		
		a. suspension.c. solute.	b. solution.d. solvent.	
2. A neutral solution has a pH of				
		a. 3. c. 5.	b. 7. d. 9.	
	3.	A base		
		a. tastes sour.b. corrodes metals.c. does not react withd. turns litmus red.	n carbonates.	
	4.	Solutes lower the fre	ezing point of water by	
		b. forming crystals.c. making it harder f	or water to form crystals. molecules move faster.	
	5.	A polar solvent will:	most likely dissolve	
		a. any solute.c. nonpolar solutes.	b. polar solutesd. no solute.	3.
	6. Sodium hydroxide, potassium hydroxide, and magnesium hydroxide all produce hydroxide ions in water and are theref			
		a. salts.c. bases.	b. acids.d. low in pH.	
	7. If you add a small amount of hydrochloric acid to 4 liters what type of solution would you expect to have?			
		a. concentrated solutc. dilute solution	b. basic solution d. saturated sol	
	8.	The pH scale		
		a. is numbered fromb. measures the cond		

d. measures the concentration of hydrogen ions.

c. measures the concentration of acids.

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9.	Neutralization		
	b. occurs when a c. forms an acid a	tween an acid and a base. cid is dissolved in water. and a base. ge the pH of a solution.	
10). The pH in the dig	gestive system is highest in t	the
	a. mouth.c. small intestine	b. stomach.d. large intest	ine.
Comple	etion		
-	line to complete each	ı statement.	
-	ı add solute to a di	lute solution, the solution be	ecomes a more
	s are described as b lve some metals.	eing	, because they
	acid or a base.	is a substance that t	urns different colors
		is a mixture contain at do not settle out.	ning small,
		od into smaller molecules.	breaks down the
True or	False		
•	ement is true, write tr he statement true.	rue. If it is false, change the und	lerlined word or words
	16.	When a base reacts with an salt forms.	acid, water and a(n)
	17.	When acids react with carb carbon dioxide forms.	onate compounds,
	18.	A(n) <u>base</u> forms hydrogen in water.	ions when it dissolves
	19.	The <u>solute</u> is the part of a slargest amount.	olution present in the
	20	Solutes decrease the hoiling	y point of a solvent

Name	Date	Class	
Acids, Bases, and Solutions	Chapter Test		
Using Science Skills: Inter	preting Diagrams		
Use the diagram below to answer	the following questions.		
	Solution of table sugar in water Crystals of table s	sugar	
21. The jar in the diagram has been shaken and allowed to sit for a day. What can you infer about the concentration of the solution? Explain.			
22. Describe the changes that we the jar were to be cooled. We instead?			

Essay

Write an answer for each of the following on a separate sheet of paper.

- **23.** What happens to the particles of a solid solute when the solute is dissolved in a solvent?
- **24.** Why must the pH values of the mouth, stomach, and small intestine be different?
- **25.** In what two ways is adding antifreeze to the water in a car radiator useful?

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Us	ing Science Sk	cills	
Use	e the equation below	w to answer the following questions in t	the spaces provided.
		$NH_3 + H_2O \longrightarrow NH_4^+ + O$	OH—
26.	Interpreting Dia	agrams Is ammonia (NH ₃) an acid o	or a base? How do you know?
27. -		epts If you did not know the producted the production of the section of the production of the producti	
Wr	The water in son rock made up of	ach of the following in the spaces provid ne lakes is basic because the rock un calcium carbonate. What chemical i ke such as this? What happens to the	nderneath the lake is limestone reaction happens when acid
29.	How is a weak a	cid different from a dilute acid?	
30.		solved particles of a molecular solid, rticles of an ionic solid, such as table	- C
-			
-			